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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/964,009	09/26/2001	Yinon Degani	60-40-1-1 1874		
75	90 07/18/2003				
PETER V. D. WILDE			EXAMINER		
301 EAST LAN WILLIAMSBU	IDING RG, VA 23185		NGUYEN, DILINH P		
			ART UNIT	PAPER NUMBER	
			2814 DATE MAILED: 07/18/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		1		1/			
	Application	No.	plicant(s) برج				
•	09/964,009		DEGANI ET AL.	•			
Office Action Summary	Examiner		Art Unit				
	DiLinh Nguy		2814				
The MAILING DATE of this communication app Period f r Reply	pears on the c	over sheet with the co	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, y within the statutor will apply and will e	however, may a reply be time y minimum of thirty (30) days xpire SIX (6) MONTHS from t tion to become ABANDONED	ely filed will be considered time! he mailing date of this co	y. ommunication.			
1) Responsive to communication(s) filed on <u>08 c</u>	<i>July 2003</i> .						
,-	is action is no						
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims	ance except f Ex parte Qua	or formal matters, pro eyle, 1935 C.D. 11, 4	osecution as to th 53 O.G. 213.	e merits is			
4) Claim(s) <u>22-40</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>22 and 32</u> is/are rejected.							
7)⊠ Claim(s) <u>23-31 and 33-40</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election req	uirement.					
Application Papers							
9)☐ The specification is objected to by the Examine							
10) The drawing(s) filed on is/are: a) accept							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
			ved by the Examin	lei.			
If approved, corrected drawings are required in real 12) The oath or declaration is objected to by the Ex		e action.					
,—	Kanimor.						
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign	n nciocity und	or 2511 C C & 110/a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	ii priority und	31 33 0.0.0. g 113(a)-(d) 01 (i).				
<i>,</i> —	ts have been	received					
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
3. Copies of the certified copies of the prior				Stage			
application from the International Bu * See the attached detailed Office action for a list	ureau (PCT R	ule 17.2(a)).		Clago			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _ 			/ (PTO-413) Paper No Patent Application (P⊺				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 22 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art (fig. 5) in view of Akram et al. (U.S. Pat. 5994166).

Applicant Admitted Prior Art (fig. 5) discloses a semiconductor device comprising: a system substrate, a digital MCM, a RF MCM and means electrically connecting the RF MCM to the substrate;

the system substrate, the RF MCM on the system substrate, the digital MCM, and means electrically connecting the digital MCM to the system substrate.

Applicant Admitted Prior Art (fig. 5) fails to disclose the RF MCM on the digital MCM or otherwise and wherein the RF MCM and the digital MCM are electrically isolated.

Akram et al. disclose a semiconductor device (fig. 4, column 7, lines 27 et seq.) comprising:

a substrate 402; a substrate 420, wherein a chip 430 mounted on the substrate 420; a substrate 440; wherein a plurality of chips mounted on the substrate 440; and the substrates 402, 420 and 440 all electrically interconnected one on top of another by means of solder bumps, a first electrical connection 428 between the substrate 420 and

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the substrate 402, a second electrical connection 450 between the substrate 440 and the substrate 402, the first and second electrical connections being electrically isolated from one another; and wherein the substrate 420 and the substrate 440 are electrically isolated. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of AAPA to achieve dense packaging, as shown by Akram et al.

Allowable Subject Matter

Claims 23-31 and 33-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DiLinh Nguyen whose telephone number is (703) 305-6983. The examiner can normally be reached on 8:00AM - 6:00PM (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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DLN July 10, 2003

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